

CLAIMS

1. A connecting structure for connecting a fluid  
circuit section to a chamber delimited on at least  
5 one side by a thin metal sheet provided with at  
least one orifice for access to the chamber,  
comprising a tubular metal element (9) having a  
first end (10) set into the orifice (7) and a  
second end, and a connecting member (12)  
10 comprising a duct (15) receiving at least the  
second end of the tubular element (9) and secured  
in sealed manner to the latter.
2. The structure as claimed in claim 1, characterized  
15 in that the thickness of the metal sheet (4) is  
less than or equal to 0.4 mm.
3. The structure as claimed in one of the preceding  
claims, characterized in that the metal sheet (4)  
20 and the tubular element (9) are made of one and  
the same grade of metal.
4. The structure as claimed in claim 3, characterized  
in that the metal sheet (4) and the tubular  
25 element (9) are made of stainless steel.
5. The structure as claimed in one of the preceding  
claims, characterized in that the connecting  
member comprises an internal chamber (13) that can  
30 be connected to the circuit section.
6. The structure as claimed in claim 5, characterized  
in that the connecting member (12) is made of  
plastic.
- 35 7. The structure as claimed in one of claims 5 or 6,  
characterized in that the connecting member (12)  
comprises a protruding portion (16) secured to the  
metal sheet (4).

8. The structure as claimed in one of claims 5 to 7,  
characterized in that the internal chamber (13)  
has a main direction extending substantially  
5 parallel to the metal sheet (4).
9. The structure as claimed in one of the preceding  
claims, in which the metal sheet forms, by  
stamping, a series of parallel ducts (6) and is  
10 coupled in sealed manner to a membrane (2) to form  
a fuel cell, the orifice (7) being formed in the  
vicinity of the end of one of these ducts.
10. A fuel cell provided with at least one pair of  
15 connecting structures as claimed in one of the  
preceding claims.